sps. C8199

# ITEM: 5LE22 - PK12 Battery Alkaline C Everyday ORDER: 0182766180 LP NUMBER: U814230563

**SAFETY DATA SHEET (SDS)** 

This SDS should be attached or kept with the respective product with which it is associated.

####	7 10	*****	********
MSDS	-	C8199	

Associated Items 16A670, 16A671, 16A672, 16A673, 19R750, 19R751, 19R752, 25TT43, 25TT44, 29XG17 29XG18, 49V039, 49X339, 49X340, 49X341, 31NJ78, 16A669, 645T79, 645T78, 645T77

DOCUMENT #: ALK NA PSDS SUPERSEDES: GMEL 2002.9 - NA

ISSUE DATE: 4/16/2010 REAFFIRMED: 01/01/2012 UPDATED: 2/27/2013

P&G

PRODUCT SAFETY DATA SHEET (PSDS)

US OFFICE: DURACELL, A P&G BUSINESS BERKSHIRE CORPORATE PARK 14 RESEARCH DRIVE BETHEL, CT 06401

(203) 796-4000

CANADIAN OFFICE: DURACELL, A P&G BUSINESS 4711 YONGE STREET TORONTO, ONTARIO M2N 6K8 CANADA

(416) 730-4711

## — SECTION I - PRODUCT IDENTIFICATION —

REPRESENTATIVE PRODUCT IMAGE/PACKAGING

THE BATTERY PRODUCTS REFERENCED IN THIS PSDS DOCUMENT ARE CONSUMER PRODUCTS. UNDER OSHA REGULATIONS, BATTERIES ARE CONSIDERED "ARTICLES" AND ARE NOT SUBJECT TO THE OSHA HAZARD COMMUNICATION STANDARD MEDS/SDS REQUUREMENTS WHICH APPLY FOR "HAZARDOUS CHEMICALS IN THE WORKPLACE." ADDITIONALLY, BATTERIES ARE CONSIDERED "ARTICLES" UNDER THE GLOBAL HARMONIZED SYSTEM AND ARE EXEMPTED FROM THE GHS LABBLING AND SDS CLASSIFICATION CRITERIA. THIS PSDS DOCUMENT IS PROVIDED AS SERVICE IN RESPONSE TO REQUESTS FOR INFORMATION ON BATTERY USE, SAFETY AND REGULATORY COMPLIANCE COMPLIANCE

IDENTITY: ALKALINE BATTERIES

DESCRIPTION: CONSUMER PRODUCT

DURACELL (R\*) SUB-BRANDS: COPPERTOP (R\*), ULTRA (R\*),

DURACELL DESIGNATION SIZE NOMINAL VOLTAGE

MN/MX2400 MN/MX1500 AA 1.5V

MN1400 / MX1400 C 1.5V MN1300 / MX1300 D 1.5V 9V MN1604

9V

MN2500 / MX2500 AAAA 1.5 V

OTHER ALKALINE DESIGNATIONS COVERED BY THIS PSDS: 7K67, MN1203, MN908, MN918, MN9100

CONSUMER RELATIONS 1-800-551-2355 (9:00 AM - 5:00 PM EST)

## - SECTION II - HAZARDS IDENTIFICATION -

CAUTION:
BATTERIES MAY EXPLODE OR LEAK, AND CAUSE BURN INJURY, IF RECHARGED, DISPOSED OF IN FIRE, MIXED WITH A DIFFERENT BATTERY TYPE, INSERTED PACKWARDS OR DISASSEMBLED, REPLACE ALL USED BATTERIES AT THE SAME TIME. DO NOT CARRY BATTERIES ALOSE IN YOUR POCKET OR PURSE. DO NOT REMOVE THE BATTERY LABEL. KEEP SWALL BATTERIES (I.E., AAA) AWAY FROM CHILDREN. IF SWALLOWED, CONSULT A PHYSICIAN AT ONCE. FOR INFORMATION ON TREATMENT, CALL (202) 625-3333 COLLECT.

# - SECTION III - COMPOSITION AND INCREDIENTS

THE CHEMICALS AND METALS IN THIS PRODUCT ARE CONTAINED IN A SEALED CAN, THE CHEMICALS AND MELALS IN THIS PRODUCT ARE CONTAINED IN A SCALED CAN.

EXPOSURE TO THE CONTENTS WILL NOT OCCUR UNLESS THE BATTERY LEAKS, IS

EXPOSED TO HIGH TEMPERATURES OR IS MECHANICALLY, PHYSICALLY, OR

ELECTRICALLY ABUSED, HAZARDOUS INGREDIENTS AS DEFINED BY OSHA, 29 CFR 1910.1200. AND/OR WHMIS UNDER THE HPA:

CHEMICAL NAME	CAS NO.	COMPOSITION RANGE
MANGANESE DIOXIDE	1313-13-9	35-40%
ZINC	7440-66-6	10-25%
POTASSIUM HYDROXIDE	1310-58-3	5-10%
GRAPHITE (NATURAL OR SYNTHETI	7782-42-5; 7440-44-0	1-5%
CHEMICAL NAME	LD50/LC50	EXPOSURE LIMITS

MANGANESE DIOXIDE

LD50 ORAL RAT: 5 MG/M3 CEILUNG OSHA PEB-NG/KG 0.2 MG/M3 TWA AQGIH TEM >3478 MG/KG

ZINC

ES'TABLISHED

POTASSIUM HYDROXIDE

LD50 ORAL RAT: 2 MO/M3 CELLING ACTUAL TENDER 273 MG/KG

GRAPHITE (NATURAL OR SYNTHETIC)

NATURAL:
15 MPPCF TWA OSHA PEL 2
MG/M3 TWA (RESPIRABLE
DUST) ACGIN TIV;
SYNTHETIC:
5 MG/M3 TWA (RESPIRABLE
DUST), 15 MG/M3 TWA
(TOTAL DUST) OSHA PEL 2
MG/M3

- SECTION IV - FIRST ALD INFORMATION -

DAMAGED BATTERY WILL RELEASE CONCENTRATED POTASSIUM HYDROXIDE, WHICH IS

DO NOT INDUCE VOMITING, SEEK MEDICAL ATTENTION IMMEDIATELY, CALL, NATIONAL BATTERY INGESTION HOTLINE AT (202)-625-3333 COLLECT, DAY OR NIGHT

EYE CONTACT: IMMEDIATELY FLUSH EYES THOROUGHLY WITH WATER FOR AT LEAST IS MINUTES, SHEEK MEDICAL ATTENTION IF IRRITATION PERSISTS.

SKIN CONTACT:
REMOVE CONTAMINATED CLOTHING AND WASH SKIN WITH SOAP AND WATER, IF
IRRITATION PERSISTS, SEEK MEDICAL ATTENTION.

INHALATION:
MOVE TO FRESH AIR. IF IRRITATION PERSISTS, SEEK MEDICAL ATTENTION.

- SECTION V - FIRE FIGHTING INFORMATION

HAZARDOUS COMBUSTION PRODUCTS:
THERMAL DEGRADATION MAY PRODUCE HAZARDOUS FUMES OF ZINC AND MANGAMENE,
HYDROGEN GAS, CAUSTIC VAPORS OF POTASSIUM HYDROXIDE AND OTHER TOXIC BY-PRODUCTS.

EXTINGUISHING MEDIA:
USE ANY EXTINGUISHING MEDIA THAT IS APPROPRIATE FOR THE SURROUNDING AREA.

PROTECTION OF FIREFIGHTERS:

SPECIFIC HAZARDS ARTSING FROM THE MATERIAL BATTERIES MAY BURST AND RELEASE HAZARDOUS DECOMPOSITION PRODUCTS WHEN EXPOSED TO A FIRE SITUATION.

PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS: FIREFIGHTERS SHOULD WEAR POSITIVE PRESSURE SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE CLOTHING.

- SECTION VI - ACCIDENTAL RELEASE MEASURES

NOTIFY SAFETY PERSONNEL OF LARGE SPILLS. CAUSTIC POTASSIUM HYDROXIDE MAY LE RELEASED FROM LEAKING OR RUFTURED BATTERIES, CLEAN-UP PERSONNEL SHOULD WEAR APPROPRIATE CLOTHING TO AVOID EVE AND SKIN CONTACT AND INHALATION OF VACHES AND FUMES. VENTILATE AREA. CAREFULLY COLLECT BATTERIES AND PLACE IN AN APPROPRIATE CONTAINER FOR DISPOSAL.

## - SECTION VII - HANDLING AND STORAGE -

PRECAUTIONS TO BE TAKEN IN HANDLING: AVOID MECHANICAL OR ELECTRICAL ABUSE. DO NOT SHORT CIRCUIT OF INSTALL INCORRECTLY. BATTERIES MAY RUPTURE OR VENT IF DISASSEMBLED, CRUSHED, RECHARGED OR EXPOSED TO HIGH TEMPERATURES. INSTALL RATTERIES IN A COSPANIA WITH EQUIPMENT INSTRUCTIONS.

PRECAUTIONS TO BE TAKEN IN STORAGE: STORE BATTERIES IN A DRY PLACE AT NORMAL ROOM TEMPERATURE. DO NOT REFRIGERATE - THIS WILL NOT MAKE THEM LAST LONGER.

- SECTION VIII - EXPOSURE CONTROLS / PERSONAL PROTECTION -

NOT APPLICABLE - FINISHED CONSUMER PRODUCT

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES -

APPEARANCE (COLOR, PHYSICAL FORM, SHAPE):
FINISHED CONSUMER PRODUCT - CYLINDRICAL BATTERY WITH DURACELLI(R\*) LAUGH

VOLATILE ORGANIC COMPOUND (VOC): NOT APPLICABLE - PRODUCT NOT REGULATED FOR VOC CONTENT AT STATE OR PEDERAL LEVEL

- SECTION X - STABILITY AND REACTIVITY -

FINISHED CONSUMER PRODUCT - STABLE UNDER NORMAL CONDITIONS OF USE. CONTENTS ARE INCOMPATIBLE WITH STRONG OXIDIZING AGENTS. DO NOT HEAT, CRUSH, DISAESEMBLE, EHORT CIRCUIT OR RECHARGE.

SECTION XI - TOXICOLOGICAL INFORMATION

THIS BATTERY PRODUCT IS A FINISHED CONSUMER PRODUCT. IT IS CLASSIFIED AS AN "ARTICLE" AND EXEMPT UNDER THE FEDERAL OSHA HAZARD COMMUNICATION STANDARD.

CHRONIC EFFECTS: NO CHRONIC HEALTH EFFECTS REPORTED.

TARGET ORGANS: NO TARGET ORGANS REPORTED.

CARCINOGENICITY: THIS FINISHED CONSUMER PRODUCT IS NOT CARCINOGENIC.

#### - SECTION XII - ECOLOGICAL INFORMATION -

NO ECO-TOXICITY DATA ARE AVAILABLE. THIS PRODUCT IS NOT EXPECTED TO PRESENT AN ENVIRONMENTAL HAZARD. DURACELL ALKALINE BATTERIES DO NOT CONTAIN ANY ADDED MERCURY, CADMIUM OR LEAD.

#### SECTION XIII - DISPOSAL CONSIDERATIONS -

WASTE DISPOSAL METHOD

DISPOSE OF IN COMPLIANCE WITH FEDERAL, STATE/PROVINCIAL AND LOCAL REGULATIONS.

NON-HOUSEHOLD SETTING (US FEDERAL): ALKALINE BATTERIES COVERED BY THIS PSDS, IN THEIR ORIGINAL FORM (FINISHED CONSUMER PRODUCT), WHEN DISPOSED OF AS WASTE, ARE CONSIDERED NON-HAZARDOUS WASTE ACCORDING TO FEDERAL RCRA REGULATION (40 CFR 261).

NON-HOUSEHOLD SETTING (CALIFORNIA): NONE

HOUSEHOLD USE:

ALKALINE BATTERIES CAN BE SAFELY DISPOSED OF WITH NORMAL HOUSEHOLD WASTE, DO NOT ACCUMULATE LARGE QUANTITIES USED BATTERIES FOR DISPOSAL AS ACCUMULATION COULD CAUSE BATTERIES TO SHORT-CIRCUIT, DO NOT INCINERATE.

#### - SECTION XIV - TRANSPORT INFORMATION

ALKALINE BATTERIES (SOMETIMES REFERRED TO AS "DRY CELL" OR "HOUSEHOLD" BATTERIES) ARE NOT LISTED OR REGULATED AS DANGEROUS GOODS UNDER THE IATA DANGEROUS GOODE REGULATIONS, ICAO TEXHNICAL INSTRUCTIONS, IMDG CODE, UN MODEL, REGULATIONS OR U.S. HAZARDOUS REGULATIONS (49CFR).

HOWEVER, SPECIAL REGULATORY PROVISIONS APPLY THAT REQUIRE BATTERIES TO BE PACKAGED IN A MANNER THAT PREVENTS THE GENERATION OF A DANGEROUS QUANTITY OF HEAT AND SHORT CIRCUITS. PRODUCT SHIPPED IN ITS ORIGINAL UNOPENED DURACELL PACKAGING IS COMPLIANT WITH THE FOLLOWING PACKAGING SPECIAL PROVISIONS:

GROUND TRANSPORT (US DOT): 49 CFR172.102 SPECIAL PROVISION 130

AIR TRANSPORT (IATA)/ICAO: SPECIAL PROVISION A123 (54TH EDITION - 2013)

THE WORDS 'NOT RESTRICTED' AND THE 'SPECIAL PROVISION A123' MUST BE INCLUDED ON THE DESCRIPTION OF THE SUBSTANCE ON THE AIR WAYBILL, WHEN AIR WAYBILL IS ISSUED.

MARINE/WATER TRANSPORT (IMDG): NONE

FOR TRANSPORTATION EMERGENCIES, CALL: CHEMITREC EMERGENCY RESPONSE HOTLINE: 1-800-424-9300 (US & CANADA)

### SECTION XV - REGULATORY INFORMATION -

UNITED STATES:

OSHA:

THE FINISHED ALKALINE BATTERY PRODUCT IS CONSIDERED AN ARTICLE AND NOT COVERED BY THE OSHA HAZARD COMMUNICATION STANDARD, 29 CFR 1910.1200

ALKALINE BATTERIES ARE EXEMPT, SEE CPSC EXEMPTION LETTER POSTED ON P&G WEB SITE.

EPA MERCURY CONTAINING AND RECHARGEABLE BATTERY MANAGEMENT ACT OF 1996: COMPLIANT

EPA TSCA:
ALL INTENTIONALLY-ADDED COMPONENTS OF THIS PRODUCT ARE LISTED ON THE US TSCA INVENTORY.

EPA SARA 313/302/304/311/312 CHEMICALS: MANGANESE COMPOUNDS 35-40%; ZINC 10-25%

CALIFORNIA:
THIS PRODUCT HAS BEEN EVALUATED AND DOES NOT REQUIRE WARNING LABELING UNDER

STATE RIGHT-TO-KNOW AND CERCLA:

THE FOLLOWING INGREDIENTS PRESENT IN THE FINISHED PRODUCT ARE LISTED ON STATE RIGHT-TO-KNOW LISTS OR STATE WORKER EXPOSURE LISTS:

INGREDIENT	CAS #	LEVEL	CERCLA RO	STATE				
	"		out to the	IL	MA	NJ	PA	RI
MANGANESE DIOXIDE	1313-13-9	35-40%	NONE	Y	Y	N	Y	Y
ZINC	7440-66-6	10-25%	1000 LBS	Y	Y	Y	Y	N
POTASSIUM HYDROXIDE	1310-58-3	5-10%	1000 LBS	Y	Y	Y	Y	Y
GRAPHITE	7782-42-5	1-5%	NONE	Y	Y	N	Y	Y

CANADA:

ALL INGREDIENTS ARE CEPA APPROVED FOR IMPORT TO CANADA BY PROCTER & GAMBLE,
THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF
THE CANADIAN CONTROLLED PRODUCTS REGULATIONS (CER) AND THIS MSDS CONTAINS
ALL INFORMATION REQUIRED BY THE CONTROLLED PRODUCTS REGULATIONS.

SECTION XVI - OTHER INFORMATION

P&G HAZARD RATING: HEALTH 0 FLAMMABILITY 0 REACTIVITY

4=EXTREME 3=HIGH 2=MODERATE 1=SLIGHT 0=NOT SIGNIFICANT

HAZARD RATINGS ARE SUPPLIED FOR USE ONLY IN CONNECTION WITH COCUPATIONAL SAFETY AND HEALTH.

DISCLAIMER:
THIS PSDS IS INTENDED TO PROVIDE A BRIEF SUMMARY OF OUR KNOWLEDGE AND
GUIDANCE REGARDING THE USE OF THIS MATTERIAL. THE INFORMATION CONTAINED HERE
HAS BEEN COMPILED FROM SOURCES CONSIDERED BY PROCTER & GREEK BY BY
DEPENDABLE AND IS ACCURATE TO THE BEST OF THE COMPANY'S KNOWLEDGE. IT IS
NOT MEANT TO BE AN ALL-INCLUSIVE DOCUMENT ON WORLDWIDE HAZARD COMMUNICATION REGULATIONS

THIS INFORMATION IS OFFERED IN GOOD FAITH. EACH USER OF THIS MATERIAL DEFICE TO EVALUATE THE CONDITIONS OF USE AND DESIGN THE APPROPRIATE PROTECTIVE MECHANISMS TO PREVENT EMPLOYEE EXPOSURES, PROPERTY DAMAGE OR RESEARCH TO THE REVIEWOMENT. PROCTER & CAMBLE ASSUMES NO RESPONSIBILITY FOR INJURY TO THE RECIPIENT OR THIRD PERSONS OR FOR ANY DAMAGE TO ANY PROPERTY RESULTING FROM MISUSE OF THE PRODUCT.

ITEM: 5LE22 - PK12 Battery Alkaline C Everyday ORDER: 0182766180 LP NUMBER: U LP NUMBER: U814230563

SAFETY DATA SHEET (SDS)

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19N839 4XL75,
4YC17,
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32WK48, 32WK49, 32WK50, 32WK51, 32WK52, 32WK53, 32WK54
32WK58, 32WK59, 32WK60, 32WK61, 32WK62, 32WK63, 32WK64
 13J015, 13J016, 13J017, 19N840, 19N841, 19N842,
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33GP51
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33TU71,
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3ARE2, 3AZZ1, 3AZZ2,
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3AZZ8
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3FMJ7,
3FMK9,
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3LY80
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            3LY82
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3PVU3
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3THE3
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3VAN4
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3WUZ2,
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3WZC1,
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sps: **E2449** 

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36PV33
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A SAFETY DATA SHEET (SDS) IS NOT REQUIRED FOR THIS ITEM BECAUSE THE PRODUCT HAS BEEN DETERMINED EXEMPT FROM THE UPDATED HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200) BY THE PRODUCT MANUFACTURER.

ITEM: 5LE22 - PK12 Battery Alkaline C Everyday ORDER: 0182766180 LP NUMBER: U814230563

SAFETY DATA SHEET (SDS)

sps: **E9817** 

Associated Items
503YS3, 503Y54, 13J052, 13J053, 13J054, 13J055, 19PK10, 19PK11, 21EK77, 21EK78
21EK79, 21LN81, 21LN82, 21LN83, 21LN84, 22A624, 22A625, 2HYH9, 2HYJ5, 2HYJ6
2HYJ7, 2HYL1, 2HYL2, 2HYL3, 2LNX2, 30F538, 30F539, 32ZM21, 32ZM23, 39G076
3VY95, 3VY96, 3VY97, 3VY99, 3WAL1, 3WAL2, 45BJ20, 489D85, 489D86, 489D87
489D88, 5HXN7, 5LE21, 5LE22, 5LE23, 5LE24, 5LE25, 5LE26, 5LE27, 16A669, 16A670, 16A671, 16A672, 16A673, 19R750, 19R751, 19R752, 25TT44, 29XG17, 29XG18
31NJ78, 49V039, 49X339, 49X340, 49X341, 645T77, 645T78, 645T79

DURACELL (R\*)

ARTICLE INFORMATION SHEET (AIS)

FORMERLY KNOWN AS MSDS/PSDS DOCUMENT FOR SHIPPERS

THIS ARTICLE INFORMATION SHEEF (AIS) PROVIDES RELEVANT BATTERY INFORMATION TO RETAILERS, CONSUMERS, OEMS AND OTHERS USERS REQUESTING A GHS-COMPLIANT SDS. ARTICLES, SUCH AS BATTERIES, ARE EXEMPT FROM CHS SDS CLASSIFICATION CRITERIA. THE GHS CRITERIA IS NOT DESIGNED OR INTERDED TO BE USED TO CLASSIFY THE PHYSICAL, HEALTH AND ENVIRONMENTAL HAZARDS OF AN ARTICLE. BRANDED CONSUMER BATTERIES ARE DEFINED AS ELECTRO-TECHNICAL DEVICES. THE DESIGN, SAFETY, MANUFACTURE, AND QUALIFICATION OF BRANDED CONSUMER BATTERIES FOR EASTERY STANDARDS. THIS DOCUMENT IS BASED ON PRINCIPLES SET FORTH IN THE FOLLOWING HAZARD COMMUNICATION APPROACHES: ANSI Z-400.1, GHS, JAMP AIS, AND IEC 62474.

### - 1. DOCUMENT INFORMATION -

DOCUMENT NAME: DURACELL ALKALINE BATTERIES (MAJOR AND SPECIALTY CELLS)

DOCUMENT ID: AIS-ALK-OFM ISSUE DATE: 1-MAY-15

PREPARER: PRODUCT SAFETY & REGULATORY

LAST REVISION: 3/1/2018

INFORMATION CONTACT: MOQUET, L@DURACELL.COM

#### 2. COMPANY INFORMATION

NAME & ADDRESS: DURACELL US OPERATIONS, INC. 14 RESEARCH DRIVE BETHEL, CT 06801

TELEPHONE: (203) 796-4430 WEBSITE: WWW.DURACELL.COM

CONSUMER RELATIONS: NORTH AMERICA: 1-800-551-2355 (9:00 AM - 5:00 PM EST)

## 3. ARTICLE INFORMATION

DESCRIPTION: DURACELL BRANDED CONSUMER ALKALINE BATTERY

PRODUCT CATEGORY: ELECTRO-TECHNICAL DEVICE

USE: PORTABLE POWER SOURCE FOR ELECTRONIC DEVICES

GLOBAL SUB-BRANDS (RETAIL): COPPERTOP, PLUS, QUANTUM, SIMPLY, TURBO, ULTRA, BASIC, TURBOMAX

GLOBAL SUB-BRANDS (B2B): PROCELL, INDUSTRIAL, OEM/OEA

MAJOR CELLS - SIZES/PART NUMBERS: AA/LR6 (MN/MX/QU 1500); AAA/LR63 (MN/MX/QU 2400); AAAA/LR61 (MN/MX 2500), C/LR14 (MN/MX 1400) D/LR20 (MN/MX 1300); 9V/6LR61/6LP3146 (MN/MX1604)

SPECIALTY CELLS - SIZES/PART NUMBERS:
MN11, MN21, MN27, MN175, PX76 (LR44), PX28, PX625, (LR09), LR43, LR54, N, J, 4.5V, 625A

LANTERNS - PART NUMBERS: MN903, MN908, MN915, MN918; MN1203

PRINCIPLES OF OPERATION: A BATTERY POWERS A DEVICE BY CONVERTING STORED CHEMICAL ENERGY INTO ELECTRICAL ENERGY.

REPRESENTATIVE PRODUCT IMAGES: MAJOR CELLS LANTERN SPECIALTY

## 4. ARTICLE CONSTRUCTION -

APPLICABLE BATTERY INDUSTRY STANDARDS: ANSI C18.1M PART 1, ANSI C18.1M PART 2, ANSI C18.4, IEC 60086,1, IEC 60086-2, IEC 60086-5

ELECTRO-TECHNICAL SYSTEM: ALKALINE MANGANESE DIOXIDE

ELECTRODE - NEGATIVE: ZINC (CAS # 7440-66-6); 10-25%

ELECTRODE - POSITIVE: MANGANESE DIOXIDE (CAS # 1313-13-9); 35-40%

ALKALI METAL HYDROXIDE (AQUEOUS POTASSIUM HYDROXIDE - CAS # 1310-58-3); 5-10%

MATERIALS OF CONSTRUCTION - CAN: NICKEL PLATED STEEL

MERCURY FREE BATTERY (ANSI C18,4M <5 PPM): YES

SMALL CELL OR BATTERY (ANSI C18.1M PART 2; IEC 60086-5):

AAA AND SPECIALTY CELLS FIT INSIDE A SPECIALTY DESIGNED TEST CYLINDRIC 1923 INCHES (57.1MM) LONG BY 1.25 INCHES (31.70 MM) WIDE.

- 5. HEALTH & SAFETY -

INGESTION/SMALL PARTS WARNING:

REQUIRED FOR SMALL CELL OR BATTERY (SIZES: AAA AND SPECIALTY CELLS): KEEP AWAY FROM CHILDREN. IF SWALLOWED, CONSULT A PHYSICIAN IMMEDIATELY.

NORMAL CONDITIONS OF USE: EXPOSURE TO CONTENTS INSIDE THE SEALED BATTERY WILL NOT OCCUR UNLESS THE BATTERY LEAKS, IS EXPOSED TO HIGH TEMPERATURES, OR IS MECHANICALLY ABUSED.

NOTE TO PHYSICIAN: DAMAGED BATTERY WILL RELEASE CONCENTRATED AND CAUSTIC POTASSIUM HYDROXIDE.

FIRST AID - IF SWALLOWED:
DO NOT INDUCE VOMITING, SEEK MEDICAL ATTENTION IMMEDIATELY, FOR INFORMATION
ON TREATMENT, CALL 24 HOUR NATIONAL BATTERY INGESTION HOTLINE (TELETHONE NUMBER BELOW).

24-HOUR BATTERY INGESTION HOTLINE: USA/CANADA CALLS ONLY: 1-800-498-8666 (TOLL-FREE)

FIRST AID - EYE CONTACT: FLUSH WITH WATER FOR AT LEAST 15 MINUTES. SEEK MEDICAL CARE IF IRRITATION PERSISTS.

FIRST AID - SKIN CONTACT: REMOVE CONTAMINATED CLOTHING. WASH SKIN WITH SOAP AND WATER, SEEK MEDICAL CARE IF IRRITATION PERSISTS.

FIRST AID - INHALATION : REMOVE TO FRESH AIR.

BATTERY SAFETY STANDARDS & TESTING:

DURACELL BATTERIES MEET THE REQUIREMENTS OF ANSI C18. 1M PART 2 AND LEC 60086-5. THESE STANDARDS SPECIFY TESTS AND REQUIREMENTS FOR ALKALINE BATTERIES TO ENSURE SAFE OPERATION UNDER NORMAL USE AND REASONABLY FORESEEBBLE MISUSE. THE TEST RESIMES ASSESS THREE CONDITIONS OF SAFITY. THESE ARE:

1-INTENDED USE SIMULATION:
PARTIAL USE, VIBRATION, THERMAL SHOCK, AND MECHANICAL SHOCK

2-REASONABLY FORESEEABLE MISUSE: INCORRECT INSTALLATION, EXTERNAL SHORT-CIRCUIT, FREE FALL (USER-DROP), OVER-DISCHARGE, AND CRUSH

3-DESIGN CONSIDERATION: THERMAL ABUSE, MOLD STRESS

PRECAUTTONARY STATEMENTS:

CAUTION:
BATTERIES MAY EXPLODE OR LEAK, AND CAUSE BURN INJURY, IF RECHARGED,
DISPOSED OF IN FIRE, MIXED WITH A DIFFERENT BATTERY TYPE, INSERTED
BACKWARDS OR DISASSEMBLED. REPLACE ALL USED BATTERIES AT THE SAME TIME.
DO NOT CARRY BATTERIES LOOSE IN YOUR POCKET OR PURSE. DO NOT REMOVE THE
BATTERY LABEL, KEEP SWALL BATTERIES (I.E., AAA) AWAY FROM CHILDREN. IF
SWALLOWED, CONSULT A PHYSICIAN AT ONCE.

- 6. FIRE HAZARD & FIREFIGHTING

FIRE HAZARD: BATTERIES MAY RUPTURE OR LEAK IF INVOLVED IN A FIRE.

EXTINGUISHING MEDIA:
USE ANY EXTINGUISHING MEDIA APPROPRIATE FOR THE SURROUNDING AREA.

FIRES INVOLVING LARGE QUANTITIES OF BATTERIES:
LARGE QUANTITIES OF BATTERIES INVOLVED IN A FIRE WILL RUPTURE AND RELEASE
CAUSTIC POTASSIUM HYDROXIDE. FIREFIGHTERS SHOULD WEAR SELF-CONTAINED
BREATHING APPARATUS AND PROTECTIVE CLOTHING

- 7. HANDLING & STORAGE -

HANDLING PRECAUTIONS: AVOID MECHANICAL AND ELECTRICAL ABUSE. DO NOT SHORT CIRCUIT OR INSTALL INCORRECTLY. BATTERIES MAY RUPTURE OR VENT IF DISASSEMBLED, CRUCHED, RECHARGED OR EXPOSED TO HIGH TEMPERATURES. INSTALL BATTERIES IN ACCURDANCE WITH EQUIPMENT INSTRUCTIONS.

STORAGE PRECAUTIONS: STORE BATTERIES IN A DRY PLACE AT NORMAL ROOM TEMPERATURE, REFRIGERATION DOES NOT MAKE THEM LAST LONGER.

SPILLS OF LARGE QUANTITIES OF LOOSE BATTERIES (UNPACKAGED):
NOTIFY SPILL PERSONNEL OF LARGE SPILLS. IRRITATING AND FLANDABLE VARORS MAY
BE RELEASED FROM LEAKING OR RUPTURED BATTERIES. SPREAD BATTERIES APART TO
STOP SHORTING. ELIMINATE ALL IGNITION SOURCES, EVACUATE AREA AND ALLOW
VAPORS TO DISSIPATE. CLEAN-UP PERSONNEL SHOULD WEAR APPENDENTATE PPE TO
AVOID EVE AND SKIN CONTACT AND INHALATION OF VAPORS OR FUMES. INCREASE
VENTILATION, CAREFULLY COLLECT BATTERIES AND PLACE IN APPROPRIATE CONTAINER
FOR DISPOSAL. REPOVE ANY SPILLED LIQUID WITH ABSORBENT MATERIAL AND COMPAIN
FOR DISPOSAL.

0. DISPOSAL CONSIDERATIONS

(GHS SECTION 13)

COLLECTION & PROPER DISPOSAL:
DISPOSE OF USED (OR EXCESS) BATTERIES IN COMPLIANCE WITH FEDERAL,
STATES/PROVINCIAL AND LOCAL REGULATIONS. DO NOT ACCUMILATE LARGE QUANTITIES
OF USED PATTERIES FOR DISPOSAL AS ACCUMILATIONS COULD CAUSE BATTERIES TO
SHORT-CIRCUIT, DO NOT INCINERATE. IN COUNTRIES, SUCH AS CANADA AND THE EU,
WHERE THERE ARE REGULATIONS FOR THE COLLECTION AND RECYCLING OF BATTERIES,
CONSUMERS SHOULD DISPOSE OF THEIR USED BATTERIES INTO THE COLLECTION
NETWORK AT MUNICIPAL DEPOTS AND RETAILERS. THEY SHOULD NOT DISPOSE OF BATTERIES WITH HOUSEHOLD TRASH.

USA EPA RCRA (40 CFR 261): CLASSIFIED AS NON-HAZARDOUS WASTE (NOT IGNITABLE, CORNOSIVE, REACTIVE OR TOXIC), FEDERAL UNIVERSAL WASTE REGULATIONS (40 CFR 273) DO NOT APPLY. STATE REQUIREMENTS MAY BE MORE STRINGENT THAN FEDERAL.

CALIFORNIA UNIVERSAL WASTE RULE (CAL. CODE REGS. TITLE 22, DIV. 4.5, CH. 23): CALIFORNIA PROHIBITS DISPOSAL OF BATTERIES AS TRASH (INCLUDING HOUSEHOLD

TRASH)

VERMONT PRIMARY BATTERY STEWARDSHIP LAW (ACT 139): IN VERMONT, CONSUMERS MUST RECYCLE ALKALINE BATTERIES. FOR INFORMATION, CONTACT HTTP://www.CALLERECYCLE.ORG

# - 9. TRANSPORT INFORMATION -

(GHS SECTION 14)

REGULATORY STATUS

REGULATORY STATUS:
NOT REGULATED, ALKALINE BATTERIES (SOMETIMES REFERRED TO AS "DRY CELL" OR
"HOUSEHOLD" BATTERIES) ARE NOT LISTED OR REGULATED AS DANGEROUS GOODS UNDER
LATA DANGEROUS GOODS REGULATIONS, ICAO TECHNICAL INSTRUCTIONS, IMDG CODE,
UN MODEL REGULATIONS, U.S. HAZARDOUS MATERIALS REGULATIONS (49 CFR), AND
UNECE ADR.

UN IDENTIFICATION NUMBER/SHIPPING NAME: NONE - NOT REQUIRED

SPECIAL PROVISION (SP) CONFORMANCE: SPECIAL REGULATORY PROVISIONS REQUIRE BATTERIES TO BE PACKAGED IN A MANNER THAT PREVENTS THE GENERATION OF A DANGEROUS QUANTITY OF HEAT AND SHORT CIRCUITS. SHIPPERS CAN PREPARE BATTERIES BY TAPING THE TERMINALS, INDIVIDUALLY PACKAGING BATTERIES, OR OTHERWISE SEGREGATING THE BATTERIES TO PREVENT RISK OF CREATING A SHORT CIRCUIT, BATTERIES SHIPPED IN ORIGINAL UNOPENED DURACELL PACKAGING IS COMPLIANT.

US DOT SP: 49 CFR 172.102 SPECIAL PROVISION 130

AIR TRANSPORT (IATA/ICAO) SP: SPECIAL PROVISION A123 (56TH EDITION - 2015). NOTE: THE WORDS "NOT RESTRICTED" AND "SPECIAL PROVISION A123" MUST BE INCLUDED ON THE DESCRIPTION OF THE SUBSTANCE ON THE AIR WAYBILL, WHEN AIR WAY-BILL

INTERNATIONAL MARITIME DANGEROUS GOODS (IMDG): NOT REGULATED/NO REQUIREMENTS.

PASSENGER AIR TRAVEL: NO RESTRICTIONS

EMERGENCY TRANSPORTATION HOTLINE:

CHEMITREC 24-HOUR EMERGENCY RESPONSE HOTLINE: WITHIN THE UNITED STATES CALL +703-527-3887 OUTSIDE THE UNITED STATES, CALL +1 703-527-3887 (COLLECT)

# - 10. REGULATORY INFORMATION -

(GHS SECTION 15)

10A. BATTERY REQUIREMENTS:

USA EPA MERCURY CONTAINING & RECHARGEABLE BATTERY MANAGEMENT ACT OF 1996; DURING THE MANUFACTURING PROCESS, NO MERCURY IS ADDED.

EU BATTERY DIRECTIVE 2006/66/EC & AMENDMENT 2013/56/EU:
COMPLIANT WITH MARKING AND SUBSTANCE RESTRICTIONS FOR MERCURY (<0.0005%)
CADMIUM (<0.0020%) L AND LEAD (<0.0040%). GLOBAL LABELS ARE MARKED WITH TO
SPECIAL COLLECTION SYMBOL AND THE EU QUALIFIER IN ACCORDANCE WITH EU
BATTERY DIRECTIVE 2006/66/EC, ARTICLE 11, PARAGRAPH 1 ON BATTERIES AND
ACCUMULATORS AND WASTE BATTERIES AND ACCUMULATORS (ANNEX II).

P.R.C. PROVISION ON MERCURY CONTENT LIMITATION FOR BATTERIES (GB  $8897.5\text{-}2005,\ \text{MOD},\ \text{SECTION}\ 9.1(E)):$ 

P.R.C MERCURY FREE BATTERY (GB 24427-2009) <1 PPM; YES

10B. GENERAL REQUIREMENTS:

USA CPSIA 2008 (PL, 11900314): EXEMPT

USA CPSC FHSA (16 CFR 1500): CONSUMER BATTERIES ARE NOT LISTED AS A HAZARDOUS PRODUCT.

USA EPA TSCA SECTION 13 (40 CFR 707.20): FOR CUSTOMS CLEARANCE PURPOSE, BATTERIES ARE DEFINED AS AN "ARTICLE".

USA EPA RCRA (40 CFR 261): CLASSIFIED AS NON-HAZARDOUS WASTE (NOT IGNITABLE, CORROSIVE, REACTIVE OR TOXIC). FEDERAL UNIVERSAL WASTE REGULATIONS (40 CPR 273) DO NOT APPLY. STATE REQUIREMENTS MAY BE MORE STRINGENT THAN FEDERAL.

CALIFORNIA PROP 65: NO WARNING REQUIRED PER 3RD PARTY ASSESSMENT.

CANADA PRODUCTS CONTAINING MERCURY REGULATIONS SOR/20140254: MERCURY FREE

EU REACH REGULATION (EC) NO. 1907/2006: REGULATED AS AN "ARTICLE". NO LISTED SUBSTANCES ARE KNOWN TO BE PRESENT (>0.01%) W/W) IN ACCORDANCE WITH ECU ARTICLE DEFINITION OF 10 SEPTEMBER 2015.

EU REACH ARTICLE 31: SDS IS NOT REQUIRED CONSUMER ALKALINE BATTERIES

10C. REGULATORY DEFINITIONS - ARTICLES:

USA OSHA: 29 CFR 1910.1200(B)(6)(V)

USA TSCA: 40 CFR 704.3; 710.2(3)( C); AND [19 CFR 12.1209A)]

EU REACH: TITLE 1 - CHAPTER 2 - ARTICLE 3(3)

GHS: SECTION 1.3.2.1

#### 11. OTHER INFORMATION -

11A. CERTIFICATION & 3RD PARTY APPROVALS:

UL (UTGT2.S50939 SINGLE MULTIPLE STATION SMOKE ALARMS - COMPONENT): AA, 9V

CERTIFICATION STANDARD: ANSI/UL 217 SINGLE & MULTIPLE STATION SMOKE ALARMS

11B. AIS HAZARD COMMUNICATION APPROACHES (CONSULTED IN DEVELOPING THIS DOCUMENT)

GLOBALLY HARMONIZED SYSTEM (GHS):
GHS 505 REQUIREMENTS AND CLASSIFICATION CRITERIA DO NOT APPLY TO ARTICLES
OR PRODUCTS (SUCH AS BATTERIES) THAT HAVE A FIXED SHAPE, WHICH ARE NOT
INTENDED TO RELEASE A CHEMICAL. THE ARTICLE EXPMPTION IS FOUND IN SECTION
1.3.2.1.1 OF THE GHS AND READS: THE GHS APPLIES TO PURE SUBSTANCES AND
THEIR DILDTE SOLUTIONS AND TO MIXTURES. "ARTICLES" AS DEFINED BY THE HAVAND
COMMUNICATION STANDARD (29 CFR 1900.1200) OF THE OSHA OF THE USA, OR BY
SIMILAR DEFINITION, ARE OUTSIDE THE SCOPE OF THE SYSTEM."

JOINT ARTICLE MANAGEMENT PROMOTION CONSORTIUM JAMP:
JAMP IS A JAPANESE INDUSTRY ASSOCIATION WHO DEVELOPED THE CONCEPT OF AM
ARTICLE INFORMATION SHEET AS A SUPPLY CHAIN TOOL TO SHARE AND CUMPUNICKUE
CHEMICAL INFORMATION IN ARTICLES. THE AIS AUTHORING PROCESS IS BASED ON
UDECLARABLE" SUBSTANCES TO MEET GLOBAL REGULATORY REQUIREMENTS AS WELL AS
SUBSTANCES TO BE REPORTED BY GADSL, JIG, ETC.

IEC 62474 ED. 1.0 B:2012 MATERIAL DECLARATION FOR PRODUCTS OF AND FOR THE ELECTRO-TECHNICAL INDUSTRY: AN INTERNATIONAL STANDARD THAT CAME INTO EFFECT IN MARCH 2012 CONCERNING DECLARATION FOR ELECTRICAL AND ELECTRONIC PRODUCTS. IEC 6274 REPLACES THE DEFUNCT JOINT INDUSTRY GUIDE: MATERIAL DECLARATION FOR ELECTRO-TECHNICAL PRODUCTS (JIG-101-ED 4.1 (MAY 21, 2012)

IEC 62474 DATABASE - PUBLICALLY AVAILABLE ONLINE (MAINTAINED BY TCI):
ENVIRONMENTAL STANDARDIZATION FOR ELECTRICAL AND ELECTRONIC PRODUCES AND SYSTEMS.

THE GENERAL PRINCIPLE FOR A SUBSTANCE TO BE INCLUDED IN THE DATAPASE AS A DECLARABLE SUBSTANCE IS: 1) EXISTING NATIONAL LAWS OR REGULATIONS IN AN DEMONSTRY THAT ARE RELEVANT TO ELECTRO-TECHNICAL PRODUCTS AND THAT PROHIBIT OR RESIRECT SUBSTANCES, OR THAT HAVE A LABELING, COMMUNICATION, REPORTING OR NOTIFICATION REQUIREMENT, AND 2) APPLYING IEC 62474 CRITERIA RESULTS IN IDENTIFICATION OF DECLARABLE SUBSTANCE.

ANSI Z 400.1/Z19.1 (2010):

2.1 SCOPE: 2.1 SCOPE;
APPLIES TO PREPARATION OF SDSS FOR HAZARDOUS CHEMICALS USED UNDER
OCCUPATIONAL CONDITIONS. DOES NOT ADDRESS HOW THE STANDARD MAY BE APPLIED
TO ARTICLES. IT PRESENTS BASIC INFORMATION ON HOW TO DEVELOP AND WRITE A
SDS. ADDITIONAL INFORMATION IS PROVIDED TO HELP COMPLY WITH STATE AND
FEDERAL ENVIRONMENTAL AND SAFETY LAWS AND REGULATIONS. ELLIMENTS OF THE
STANDARD MAY BE ACCEPTABLE FOR INTERNATIONAL USE.

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